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calculations by W.Loisell and C.Quate (Ref.3 and 8) shows that the theory does not adequately explain the observed phenomenon. Firstly, disregarding of the combination frequencies is not justified and, secondly, various phenomena, as for instance the non-monotonic relationship between the coefficient of parametric amplification and the power of the pump source etc, are not explained by the work of Loisell. On the other hand, a number of experimental facts are in qualitative agreement with the theory; for instance, the selective properties of the investigated systems, the dependence of the coefficient of parametric amplification on the voltage of the beam for systems with a beam and a delay line. In the investigations described, no special measures were taken for picking up the noise energy; the minimum noise coefficient of the systems investigated was at the level of the noise of the appropriate travelling wave tubes. Even in their present state electron wave parametric systems may be of interest from the point of view of wide band mixing and division of frequencies. Acknowledgments are expressed to A.S.Tager for his comments on the results and to V.G.Dmitriyev and A.A.Ovsyannikov for their

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S/109/60/005/010/025/031
E073/E482

Parametric Phenomena ...

assistance with the measurements. There are 2 figures and 8 references: 4 Soviet and 4 non-Soviet.

ASSOCIATION: Fizicheskiy fakul'tet Moskovskogo gosudarstvennogo universiteta im. M.V.Lomonosova Kafedra radiotekhniki (Physics Department, Moscow State University imeni M.V.Lomonosov, Radioengineering Chair)

SUBMITTED: October 30, 1959 (initially)
May 5, 1960 (after revision)

Card 5/5

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14752

S/057/63/033/001/011/017
B125/B186

9,2572

AUTHORS: Akhmanov, S. A., Gvozdover, S. D., Gorshkov, A. S., and Dmitriyev, V. G.

TITLE: The nonlinear effects and the parametric regeneration in the interaction of waves in wave guide systems with long electron currents

PERIODICAL: Zhurnal tekhnicheskoy fiziki, v. 33, no. 1, 1963, 90 - 99

TEXT: Experiments were conducted in the centimeter and decimeter wave range of this wave guide system with freely drifting electron currents and an electron beam of a slow-down system. The effective parametric regeneration was studied over a wide range of signal-to-pump frequency ratios of traveling waves. Thereby, a great number of combination frequencies were observed, considerably influencing the non-linear and parametric processes. The accelerating potential of the drifting section has an important effect on the character of the space charge waves in the freely drifting electron current. The parametric regeneration is possible in a very wide frequency band and shows no qualitative difference for the

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cases $f_{pump} > f_{sign}$ and $f_{pump} < f_{sign}$. Nonlinear effects such as parametric amplification for $f_{pump} > f_{sign}$ and $f_{pump} < f_{sign}$, suppression, cross modulation, clipping, etc., are possible in wave guide systems with long electron currents. A spectrum of Raman frequencies, particularly the sum and difference of f_{pump} and f_{sign}, occurs in spiral systems. The interaction of these two frequencies leads in the general case to the spectrum $f_{mn} = mf_{pump} + nf_{sign}$ of the Raman frequencies. Some of the nonlinear effects mentioned above follow from the dispersion properties of the system and the theory of interactions in nonlinear wave systems by taking into account numerous Raman frequencies. There are 9 figures.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet, Fizicheskiy fakul'tet (Moscow State University, Division of Physics)

SUBMITTED: December 3, 1961

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R000516320006-8"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R000516320006-8

S/141/63/006/001/013/018
E192/E382

AUTHORS: Gvozdover, S.D., ~~Gorshkov, A.S.~~ and Marchenko, V.F.

TITLE: Investigation of travelling-wave amplifiers based on semiconductor diodes

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Radiofizika, v. 6, no. 1, 1963, 126 - 136

TEXT: The amplifiers are based on a coaxial or symmetrical strip line with a TEM-wave. The lines are provided with parametric diodes which either shunt the line or are connected into the center conductor (see Fig. 1, where $Z_s = jZ_o \sin(\beta \ell_o)$, $Y_p = j(2/Z_o)tg(\beta \ell_o/2)$ and ℓ_o is the length of a section of the line; for the series-connected diodes $Z_s = -2jZ_o tg(\beta \ell_o/2)$, $Y_p = j\frac{1}{Z_o} \sin(\beta \ell_o)$, where Z is the wave impedance of the line; Fig. 1B represents the equivalent circuit of a parametric diode). The parameters of the amplifier are chosen in such a way that $\omega_H = \omega_c + \omega_p$, where ω_H is the pump frequency, ω_c the signal

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frequency and ω_p the difference frequency; also, the phase synchronism should be maintained:

$$B_c + B_p = B_H \tag{1}$$

where B_c, B_H and B_p are the phase shifts per dioded segment for the signal, pump and difference frequencies, respectively. The gain factor of the amplifier with parallel diodes is given by:

$$\alpha = \frac{m\, y(\omega_c) y(\omega_p)}{2Z_o\, C_\Delta} \sqrt{\frac{\sin(\beta_p \ell_o)\sin(\beta_c \ell_o)}{\omega_c \omega_p \sin B_p \sin B_c}} \tag{2a}$$

and for the series diodes it is:

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$$\alpha = \frac{m}{2Z_o C_{\Delta}} \sqrt{\frac{\sin(\beta_o \ell_o)\sin(\beta_o \ell_o)}{\omega_c \omega_p \sin B_p \sin B_c}} \qquad (3a)$$

where $m = \xi V_{HO}$ is the capacitance-modulation coefficient, $\beta \ell_o$ is the wave-shift in the line segment without diodes, $y(\omega) = Z_o \omega C_{\Delta}[1 - (\omega/\omega_{\Delta})^2]^{-1}$, $\omega_{\Delta} = 1/\sqrt{L_{\Delta} C_{\Delta}}$ is the resonance frequency of the diode and C_{Π} is the capacitance of a diode-holder. By taking into account the losses in the line which are assumed to be entirely due to the resistance R_s of the diodes, it is found that the gain of the amplifier is:

$$G_p = e^{-2\alpha_{\Pi} N} ch^2(\alpha N) \qquad (4a)$$

where N is the number of the diodes and α_{Π} is the attenuation coefficient of a segment of a cold line. Two experimental amplifiers were constructed. The system with parallel diodes

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was built in such a way that the signal and pump frequency waves propagated along two symmetrical strip lines having the same external plates. The amplifier consisted of 10 sections in which the diodes had a capacitance of 0.27 - 0.3 pF, the equivalent inductance was 1.5×10^{-9} H and R_s = 5 - 7 ohm. With optimum value biasing voltages of the diodes, an operating bandwidth of 12% was obtained and the maximum gain was 13 db. The calculated value of gain by using Eq. (2a) was 12 db. The amplifier with series-connected diodes also consisted of two symmetrical strip lines and the decoupling between the signal and pump lines was about 12 db. A bandwidth of about 10% and gain of 7 db were obtained with this amplifier. The noise factor was about 4 to 5 db. The formulas for calculating the gain are reasonably accurate, in particular, for amplifiers operating over the frequency range in the vicinity of the resonance frequency of the diodes. However, the experiments and theory seem to diverge at cm waves, which can be explained by the presence of additional losses caused by the contact of the diodes with the conductors of the line.

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E192/E382

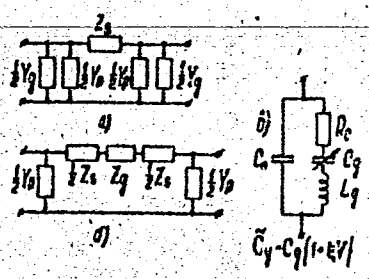
Investigation of ....

There are 6 figures.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet (Moscow State University)

SUBMITTED: May 15, 1962

Fig. 1:



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L 27851-66 EWP(e)/EWT(m)/EPF(n)-2/T/EWP(t)/EWP(b) IJP(c) JD/WW/JG/WH

ACC NR: AP6000785 UR/0096/65/000/009/0044/0047

AUTHOR: Gorshkov, A.S. (Doctor of Tech.Sci.); Loginov, A.A. (Engineer); Sokolov, Ye. Ya. (Doctor of Tech.Sci.; Professor)

ORG: VTI; MEI

TITLE: Prospects for atomic heat and power plants

SOURCE: Teploenergetika, no.9, 1965, 44-47

TOPIC TAGS: atomic energy plant equipment, nuclear power plant, sea water desalting

ABSTRACT: The article is an analysis of the conditions necessary for the creation of atomic heat and power plants and nuclear salt water distillation plants. After a brief review of the present power and heat system in the Soviet Union, the authors present proposed schemes for plants of the above types. The article has two figures. The first shows the thermal scheme of an atomic heat and power plant with a uranium-graphite reactor and a 50,000 kilowatt turbine, together with the connection to a regional heat supply system. The second figure shows the scheme of a nuclear salt water distillation unit with a uranium-graphite reactor and a back-pressure turbine. This plant has

Card 1/2 UDC: 621.311.25.001.8

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ACC NR: AP6000785

a design capacity of 840 thousand kilowatts of electric power and 16 thousand cubic meters per hour of fresh water. It is predicted that the share of small electric power plants in the overall power balance of the country during the next 10 to 15 years will be about 5%. This means that electric power requirements on the order of 15 million kilowatts will be supplied by small atomic electric power plants. It is also predicted that, along with their use for heat supply, nuclear reactors will find wide application for salt water distillation in regions which are deficient in drinking and industrial water. Orig. art. has: 2 figures.

SUB CODE: 18,13 SUBM DATE: 00 ORIG REF: 006 OTH REF: 000

Card 2/2

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R000516320006-8"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R000516320006-8

L 07576-67

ACC NR: AP6026936 SOURCE CODE: UR/0141/66/009/004/0757/0764

68

B

AUTHOR: ~~Gorshkov, A. S.~~; Marchenko, V. F.

ORG: Moscow State University (Moskovskiy gosudarstvennyy universitet)

TITLE: Observation of nonlinear boundary effects in the radio frequency band

SOURCE: IVUZ. Radiofizika, v. 9, no. 4, 1966, 757-764

TOPIC TAGS: coherent light, coherent signal, radio signal effect, transmission line, nonlinear effect, pn junction, optic dispersion, FREQUENCY BAND

ABSTRACT: The authors make use of the analogy between interaction of coherent light waves in nonlinear crystals and interaction of radio waves in transmission lines with nonlinear parameters to investigate surface effects on the boundary separating a linear medium from a nonlinear one. This effect is too small to investigate by purely optical means. An advantage of the radio approach is that establishment of the phase, determination of the reflected wave, and effects of the discreteness of the medium are easier to study than in the optical range. The authors therefore investigated experimentally surface effects such as generation of the second harmonic and of the combination frequency on the boundary of a weakly linear quadratic medium comprising a transmission line whose capacitance is a linear function of the applied voltage. These transmission lines were essentially periodic low-pass filters, in which the nonlinear capacitors used were p-n junctions of diodes. Oscillograms of the amplitude and phase distributions of the fundamental and of the second harmonic

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are presented. The theoretical formula for the amplitude of the reflected wave, based on continuity of the voltages and currents on the separation boundary, is found to be in agreement if the ratio of the minus first and zeroth harmonics is less than approximately 0.1 when spatial dispersion can be neglected. It is indicated that measurment of the nonlinear surface effect can serve as a method of quantiatively estimating the spatial dispersion in crystals. The authors thank S. D. Gvozdover for interest in the work and V. G. Titov for help with the experiments. Orig. art. has: 6 figures and 3 formulas.

SUB CODE: 09, 20/ SUBM DATE: 14Oct65/ ORIG REF: 004/ OTH REF: 004

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APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R000516320006-8"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R000516320006-8

GORSHKOV, Aleksey Stepanovich; RUSETSKIY, Aleksandr Alekseyevich. Prinimal uchastiye ZEL'DIN, Ye.A.; SHMYREV, A.N., kand. tekhn. nauk, retsenzent; RUZHDESTVENSKIY, V.N., dots., retsenzent; IVANOV, A.N., kand. tekhn. nauk, nauchnyy red.; KAZAROV, Yu.S., red.; SHISHKOVA, L.M., tekhn. red.

[Cavitation pipes]Kavitatsionnye truby. Leningrad, Sudpromgiz, 1962. 165 p. (MIRA 16:2)

(Cavitation)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R000516320006-8"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R000516320006-8

GORSHKOV, A.V.

Power characteristics of the AT-100-2 loom. Izv.vys.ucheb.zav.; tekh.tekst.prom. no.4:97-101 '61. (MIRA 14:9)

1. Ivanovskiy tekstil'nyy institut im. M.V.Frunze.
(Looms)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R000516320006-8"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R000516320006-8

VOLKOV, A.V.; GORSHKOV, A.V.

Energy characteristics of the "BINJ" tapestry loom. Izv. vys.ucheb.-zav.; tekh.tekst.prom. no.6:122-126 '61. (MIRA 15:1)

1. Ivanovskiy tekstil'nyy institut imeni M.V.Frunze.
(Germany, East--Looms)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R000516320006-8"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R000516320006-8

GORSHKOV, A.V., starshiy prepodavatel'

Modernization of the electric motors for looms. Tekst. prom. 24 no.10:72-73 O '64. (MIRA 17:12)

1. Kafedra elektrotekhniki Ivanovskogo tekstil'nogo instituta im. M.V. Frunze.

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R000516320006-8"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R000516320006-8

KUL'NEV, S.V., zasluzhennyy vrach RSFSR; GORSHKOV, A.V.

Organizing anesthesiological service. Sov. med. 25 no.10:122-123 O '61. (MIRA 15:1)

1. Iz Penzenskoy oblastnoy bol'nitsy imeni N.N.Burdenko (glavnyy vrach - zasluzhennyy vrach RSFSR A.I.Levkov).
(ANESTHESIOLOGY)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R000516320006-8"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R000516320006-8

KONOVALOV, N.I.; GORSHKOV, A.V.

Effect of the weight of the batten bar and of the crankshaft's rotating speed on the performance of the loom and electric motors. Izv. vys. ucheb. zav.; tekh. tekst. prom. no.6:61-67 '64. (MIRA 18:3)

1. Ivanovskiy energeticheskiy institut imeni Lenina i Ivanovskiy tekstil'nyy institut imeni Frunze.

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R000516320006-8"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R000516320006-8

GORSHKOV, A.V.

Effect of the adjustment of the picking mechanism on the work conditions of the electric driving systems of looms. Izv.vys. ucheb.zav.; tekh.tekst.prom. no.3:93-97 '65.

1. Ivanovskiy tekstil'nyy institut imeni Frunze. (MIRA 18:8)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R000516320006-8"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R000516320006-8

YAKIMOV, P.A.; GORSHKOV, B.G.; LEBEDEV, N.A.; CHEKMEZOVA, O.V.; PETROVA, E.B.; PODMOSTKOVA, V.A.; VITUSHKINA, A.T.

Utilization of starch-potato media in the production of penicillin. Trudy Len.khim.-farm.inst. no.15:69-74 '62. (MIRA 15:11)

1. Kafedra tekhnologii antibiotikov (zav. - prof. P.A.Yakimov) Leningradskogo khimiko-farmatsevticheskogo instituta i Krasnoyarskiy zavod meditsinskikh preparatov (dir. - B.G.Gorshkov).
(PENICILLIN)
(BACTERIOLOGY--CULTURES AND CULTURE MEDIA)

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"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R000516320006-8

SOV/137-58-10-21297

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 10, p 122 (USSR)

AUTHORS: Yuganova, S. A., Gorshkov, B. I.

TITLE: Investigation of the Structure of Oxide Films on Heat-resistant EI434 and EI395 Grade Steels (Issledovaniye struktury okisnykh plenok na zharoprochnykh stalyakh EI434 i EI395)

PERIODICAL: V sb.: Ispytaniya i svoystva zharoprochn. materialov. Moscow, Mashgiz, 1957, pp 198-214

ABSTRACT: Structural-kinetic data on the processes of oxidation (in air) of EI434 and EI395 grade steels are adduced. The composition and structure of the oxide films (OF) were determined by the electron and X-ray diffraction methods. It is established that OF, forming on the EI434 grade steel in the process of oxidation at elevated temperatures (660 - 900°C), consists of three layers: Fe_3O_4, located close to the surface of the steel, α-Fe_2O_3 in the middle part of OF, and an oxide with a spinel (S) structure on the outer border. The increase in the rate of oxidation of this steel after a prolonged oxidation at 650°, and also the intensive oxidation at 960°, is explained by the formation on the surface of the specimens of a large

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SOV/137-58-10-21297

Investigation of the Structure of Oxide Films (cont.)

amount of oxide of unknown composition having an S structure in the recrystallized state. It is claimed that the main elements that diffuse in OF are Fe and Co, but that Ni and Cr diffuse little in OF. The lower rate of oxidation of EI395 grade steel is explained by the formation on its surface of OF consisting of S of the (Cr, Ni)O Cr_2O_3 type.

I. K.

1. Oxide films--Structural analysis 2. Heat resistant steel --Oxidation

Card 2/2

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R000516320006-8"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R000516320006-8

GORSHKOV, B.I.

GORSHKOV, Boris Ivanovich; BARDASH, A.F., spetsredaktor

[Hog-fattening barn for 300 head built of precast concrete elements produced on collective farms (with built-up roof). Standard plan no.215] Svinarnik-otkormochnik na 300 golov iz sbornykh zhelezobetonnykh konstruktsii, izgotovliaemykh v kolkhozakh (s sovmeshchennym pokrytiem). Tipovoi proekt No.215. Kiev, Izdatel'skii otdel, 1955. 17 p. (MLRA 9:11)

1. Ukrainskii Gosudarstvennyi institut proyektirovaniya sel'skogo i kolkhoznogo stroitel'stva.
(Swine houses and equipment)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R000516320006-8"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R000516320006-8

GORSHKOV B.K.

IVANOV, R.N.; GORSHKOV, B.K.; ANIKINA, M.P.; KUKAVADZE, G.M.; ERSHLER, B.V.

Yields of certain heavy fragments in the fission of U^{233}. Atom. energ. 3 no.12:546-547 D '57. (MIRA 11:2)
(Fission Products) (Uranium--Isotopes)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R000516320006-8"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R000516320006-8

L 11210-66 EWT(d)/EWP(1) IJP(c) GG/BB

ACC NR: AP6002569 SOURCE CODE: UR/0286/65/000/023/0060/0061

INVENTOR: Gorshkov, B. M.; Loginov, Ya. V.; Revyakin, V. F.; Faynshteyn, T. I.

ORG: none

TITLE: Storage mechanism. Class 42, No. 176723

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 23, 1965, 60-61

TOPIC TAGS: computer component, computer memory, computer storage, potentiometer

ABSTRACT: An Author Certificate has been issued for a storage mechanism for the moving angular coordinate of a rotating shaft, which also supplies the signal for displacement between the fixed and moving coordinates. The mechanism includes two potentiometers, the drive of one of which is locked by a high-speed braking unit. To improve the high-speed action and to provide required displacements of the potentiometer drive under all operating conditions (synchronous motion, locked, and rotating), the potentiometer drives are kinematically interconnected by a flexible joint, and one of the potentiometer drives is mounted on the disk of the locking device (see Fig. 1).

UDC: 681.142

Card 1/2

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L 11210-66
ACC NR: AP6002569

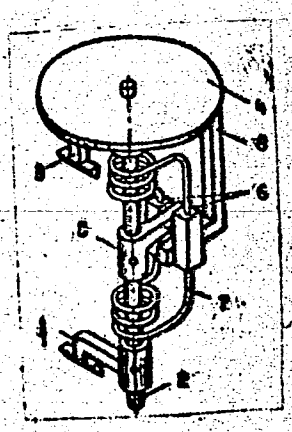

Fig. 1. Storage mechanism

1 - Lower potentiometer drive; 2 - potentiometer shaft; 3 - upper potentiometer drive; 4 - braking disk; 5 - lever; 6 - baffle plates; 7 - spring; 8 - stem.

[LB]

Orig. art. has: 1 figure.

SUB CODE: 09/ SUBM DATE: 11Jul64/ ATD PRESS: 4170

Card 2/2

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R000516320006-8"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R000516320006-8

GORSHKOV, B. N.

USSR/Electronics - Exhibitions
Television

Aug 52

"Awards to Participants in the 10th All-Union Radio Exhibition"

"Radio" No 8, pp 16,17

Lists awards to participants in the various sections of the 10th All-Union Radio Exhibition. First prize (2,000 rubles) in the television section was awarded to B. N. Gorshkov and V. A. Moskalev of Moscow for a relay station. In the

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special equipment section, 1st prize (2,500 rubles) was awarded to Yu. L. Mel'nik, G. A. Dergachev, and M. V. Katsnel'son of Leningrad for an undisclosed development. Other prizes in this section were awarded for radio-controlled model ships and airplanes.

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APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R000516320006-8"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R000516320006-8

GORETSKIY, L.I.; MIKHAYLOV, N.V.; ÜR'YEV, N.B.; GORSHKOV, D.I.; KOZODAYEV, G.A.; MISHIN, V.A.

Machines using colloidal cement glue for repairing airfield and road coverings. Mekh. stroi. 20 no.11:22-24 N '63. (MIRA 17:1)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R000516320006-8"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R000516320006-8

GORSHKOV, D.S.; FOLLER, A.N.; DURANOVSKIY, V.I.

Suspended double-bracket skidding arch on tractors. Biul. tekh.-ekon. inform. no.3:35-37 '58. (MIRA 11:6)
(Lumber--Transportation)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R000516320006-8"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R000516320006-8

GORSHKOV D.S.

ABRAMOV, I.V.; BAKHTOV, S.G.; GORSHKOV, D.S.; KRASNOGOROV, G.A.
PETROVSKIY, V.V.

Treating trichomoniasis in bulls [with summary in English].
Veterinariia 35 no.2:35-40 F '58. (MIRA 11:2)

1.Vsesoyuznyy institut eksperimental'noy veterinarii (for Abramov, Petrovskiy) 2.Moskovskaya veterinarnaya akademiya (Bakhtov). 3.Sovkhoz "Krasnaya Poyma" (for Krasnogorov).
(Trichomoniasis) (Bulls--Diseases and pests)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R000516320006-8"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R000516320006-8

GORSHKOV, D.S., otv. red.; ASHMARINA, L.A., red.; UDILOV, V.I., glav. inzh., red.; BAYANOV, M.A., starshiy nauchnyy sotr., red.; KAPUSTIN, V.A., starshiy nauchnyy sotr., red.; STATKEVICH, I.I., starshiy inzh.; OSIPOV, A.I., starshiy nauchnyy sotr., otv. red.

[Transactions of the Sverdlovsk Scientific Research Institute for the Lumbering Industry] Trudy Sverdlovskogo nauchno-issledovatel'skogo instituta lesnoy promyshlennosti. [n.p.] TSentr. nauchno-issl. in-t mekhanizatsii i energetiki lesnoi promyshl., 1960. 56 p. (MIRA 15:1)

1. Sverdlovsk. Sverdlovskiy nauchno-issledovatel'skiy institut lesnoy promyshlennosti. 2. Direktor Sverdlovskogo nauchno-issledovatel'skogo instituta lesnoy promyshlennosti (for Gorshkov). 3. TSentral'nyy nauchno-issledovatel'skiy institut mekhanizatsii i energetiki lesnoy promyshlennosti (for Osipov).
(Lumbering--Research)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R000516320006-8"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R000516320006-8

YANOVSKIY, B.M.; SHOLPO, L.Ye.; GORSHKOV, E.S.

Some characteristics of viscous magnetization. Izv. AN SSSR. Ser. geofiz. no.6:719-725 Je '62. (MIRA 15:6)

1. Leningradskiy gosudarstvennyy universitet im. A.A. Zhdanova.
(Magnetism, Terrestrial)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R000516320006-8"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R000516320006-8

GORSHKOV, G.

Aggressive organization of innovators. Mashinostroitel' no.2: 4-5 F '64. (MIRA 17:3)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R000516320006-8"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R000516320006-8

GORSHKOV, G.

Brigade leader D. A. Kalinin. Mashinostroitel' no.12:6 D '62.
(MIRA 16:1)

(Sverdlovsk—Machinery industry)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R000516320006-8"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R000516320006-8

GORSHKOV, G.

A blasting machine test table. Mast.ugl. 4 no.12:13 D '55.
(MLRA 9:3)

1. Vzryvnik shakhty "Tsentral'no-Zavodskaya" Stalinskoy oblasti.
(Blasting)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R000516320006-8"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R000516320006-8

GORSHKOV, G., tekhnik (Sverdlovsk); GRISHCHENKO, E. (Aktyubinsk); GRANOVSKIY, L., instruktor; IVANNIKOV, A.; BERDYUGIN, V., gornyy inzh.; KIL'DIBEKOV, V.; GORELIK, M., inzh.; ATKOCHAYTIS, Ye. [Atkocaitis, E.] (Vil'nyus); CHERTILIN, V. (Bavly, Tatarskaya ASSR); DZHURAYEV, U.(Fergana)

Exchange of news and practice. Izobr.i rats. no.2:18-19 F '62. (MIRA 15:3)

1. Ural'skiy zavod tyazhelogo mashinostroyeniya (for Gorshkov). 2. Predsedatel' soveta Vsesoyuznogo obshchestva izobretateley i ratsionalizatorov remontno-mekhanicheskogo zavoda "Bol'shevik", g. Aktyubinsk (for Grishchenko). 3. TSentral'nyy Sovet Vsesoyuznogo obshchestva izobretateley i ratsionalizatorov (for Granovskiy). 4. Predsedatel' oblastnogo soveta Vsesoyuznogo obshchestva izobretateley i ratsionalizatorov (for Ivannikov). 5. Vneshtatnyy konsul'tant oblastnogo konsul'tatsionnogo punkta Vsesoyuznogo obshchestva izobretateley i ratsionalizatorov, g. Kemerovo (for Berdyugin). 6. Zaveduyushchiy otdelom promyshlennosti gazety "Leninskiy put'", g. Slobodskoy Kirovskoy obl. (for Kil'dibekov). 7. Otdel kapital'nogo stroitel'stva predpriyatiya teplovykh setey upravleniya energetiki Soveta narodnogo khozyaystva BSSR, g. Minsk (for Gorelik).
(Technological innovations)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R000516320006-8"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R000516320006-8

TASHKINOV, A. (Perm'); KNYAZEV, V.; SYCHEV, B., shofer; TELITSYN, A., shofer; SHIRMANOV, Yu., shofer; GORSHKOV, G., shofer; FEDOTOV, G. (Penza); RYBIN, N. (Krasnodarskiy kray); ZYRYANOV, T., bukhgalter pozharnoy chasti (Kamensk-Ural'skiy, Sverdlovskaya obl.); KRIVOSHAPOV, I. (Sverdlovsk); VOLODIN, V. (Rostov-na-Donu)

Readers' letters. Pozh.delo 8 no.8:30 Ag '62. (MIRA 15:8)

1. Nachal'nik dobrovol'noy pozharnoy druzhiny kolkhoza "Rossiya", Kalininskaya obl. (for Knyazev). 2. Bol'shaya-Murashkinskaya rayonnaya pozharnaya komanda Gor'kovskoy oblasti (for Sychev, Telitsyn, Shirmanov, Gorshkov).

(Fire prevention)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R000516320006-8"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R000516320006-8

GORSHKOV, G.A.

PHASE I BOOK EXPLOITATION [illegible]

Soveshchaniye po ustalosti metallov. 2nd., Moscow, 1960.

Tsiklicheskaya prochnost' metallov: materialy vtorogo soveshchaniya po ustalosti metallov, 24 - 27 maya 1960 g. (Cyclic Fatigue Strength; Materials of the Second Conference on the Fatigue of Metals, held May 24 - 27, 1960) Moscow, Izd-vo AN SSSR, 1962. 338 p. Errata slip inserted. [illegible] copies printed.

Resp. Ed.: I. A. Oding, Correspondent-Member of the Academy of Sciences of the USSR; Ed. of Publishing House: A. N. [illegible]; Tech. Ed.: A. P. Gusova.

PURPOSE: This collection of articles is intended for scientific research workers and metallurgists.

COVERAGE: The collection contains papers presented and discussed at the second conference on fatigue of metals, which took place at the Institute of Metallurgy in May 1960. The papers deal with the nature of fatigue fracture, the mechanism of [illegible]

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and growth of fatigue cracks, the role of plastic deformation in fatigue fracture, an accelerated method of determining fatigue strength, the plotting of fatigue diagrams, and various fatigue test methods. New data are presented on the sensitivity of high-strength steel to stress concentration, the effect of stress concentration on the criterion of fatigue failure, the effect of the size factor on the strength of metal under cyclic loads, and results of endurance tests of various machine parts. Problems connected with cyclic metal toughness, internal friction, and the effect of corrosion media and temperature on the fatigue strength of metals are also discussed. No personalities are mentioned. Each article is accompanied by references, mostly Soviet.

TABLE OF CONTENTS:

NATURE OF FATIGUE FRACTURE

Oding, I. A. Diffusionless Mechanism of Formation and Growth of a Fatigue Crack 3

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R000516320006-8"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R000516320006-8

Postnikov, V. S., I. V. Zolotukhin, and G. A. Gorshkov. Investigation of Mechanical and Thermal Fatigue of Metals by the Method of Internal Friction 218

Pochtennyy, Ye. K. Heat Effect in Cyclic Symmetric Loading of Parts 227

EFFECT OF ENVIRONMENT
ON THE FATIGUE STRENGTH

Karpenko, T. V. Basic Factors in the Investigation of the Effect of Environment on Fatigue Strength 233

Bykov, V. A., and G. N. Vsevolodov. Corrosion-Fatigue Strength of Cast Brass 238

Chayevskiy, M. I. Effect of Melts of Low-Melting Metals on the Fatigue Strength of Carbon and Chromium-Nickel Steels 243

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R000516320006-8"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R000516320006-8

S/137/62/000/012/053/085
A006/A101

AUTHORS: Postnikov, V. S., Zolotukhin, I. V., Gorshkov, G. A.

TITLE: Investigating the mechanical and thermal metal fatigue by the internal friction method

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 12, 1962, 103 - 104, abstract 12I637 (In collection: "Tsiklich. prochnost' metallov", Moscow, AN SSSR, 1962, 218 - 226)

TEXT: A description is given of using the internal friction method (low-frequency method of low-amplitude torsion oscillations) to study mechanical and thermal fatigue. The frequency of free oscillations of a 100-mm long specimen, of 0.7 - 1 mm section, was about 1 cps. The logarithmic decrement of damping divided by π, was considered as a measure of internal friction. To study mechanical fatigue, preliminary cyclic deformation of a specimen fixed in a relaxator, was produced with the use of a special device controlling the inertia band of the relaxator, which made it possible to twist the specimen through angles from 0° to 60°. (The angle of twist of the specimen during measurements

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"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R000516320006-8

of internal friction did not exceed 5'). The deformation frequency was 60 cycles/min. Thermal fatigue was measured with the use of an analogous torsion pendulum. Cyclic heat treatment was carried out by the automatic lifting and dropping of the relaxator furnace at a given speed. The heating time of the specimen was equal to the cooling time, and was 12 sec.; the total duration of the cycle was 32 sec. Results are presented from investigating the effect of periodic twisting of the specimen upon the nature of the temperature dependence of internal friction for Cd, Zn, Al and Au. The thermal fatigue and the effect of thermocyclic operation upon the internal friction level were also investigated. There are 11 references.

A. Nikonov

[Abstracter's note: Complete translation]

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R000516320006-8"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R000516320006-8

GORSHKOV, G.A. (Voronezh); POSTNIKOV, V.S. (Voronezh)

Changes in the internal friction of aluminum, cadmium, and copper dependent on cyclic deformation. Izv. AN SSSR. Met. no.1:108-112 Ja-F '65. (MIRA 18:5)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R000516320006-8"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R000516320006-8

L [illegible] EWT(m)/EPR/EWP(q)/EWP(b) Pe-4 AFWL/SSD/ASD(m)-3/ESD(c) JD/
ACCESSION NR: AR4044210 JW S/0137/64/000/006/1038/1038

SOURCE: Ref. zh. Metallurgiya, Abs. 6I225

AUTHOR: Postnikov, V. S.; Gorshkov, G. A.

B

TITLE: Restoration of internal friction of aluminum after cyclic deformation

CITED SOURCE: Sb. Relaksats. yavleniya v met. i splavakh. M., Metallurg-izdat, 1963, 115-119

TOPIC TAGS: internal friction, aluminum, cyclic deformation, wire, torsional oscillation

TRANSLATION: By method of low-frequency torsional oscillations of small ampli-

Card 1/3

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R000516320006-8"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R000516320006-8

L 8561-65
ACCESSION NR: AR4044210

Cyclic deformation was set at a frequency of 1200 cycle/minute. Measurement of [illegible] tion started [illegible] min after cyclic deformation ceased. There are [illegible] of the restoration of internal friction [illegible] at room temperature [illegible] cycles of deformation. [illegible] deformation decreases with [illegible] cycles of deformation, [illegible] internal friction increases [illegible] very high stresses (± 7.8 kg/mm² instead [illegible] such stabilization of internal friction sets in at a significantly [illegible] of cycles. Shortly before destruction of the samples the internal [illegible] increases. With an increase [illegible] deformation, [illegible] curves of internal friction vs time of isothermal holding are more balanced, which indicates a delay in the process of restoration of internal friction. The [illegible] of activation energy (4000–5000 cal/mole) shows that restoration [illegible] after cyclic deformation [illegible] effects [illegible] The [illegible] effects caused by the resistance [illegible] stage of monotonic growth, stabilization [illegible] deformation [illegible] curves of internal friction vs [illegible]

Card 2/3

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"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R000516320006-8

L 45611-65

ACCESSION NR: AR4044210

are associated with the development of consecutive phases of fatigue (accumulation [illegible] the settling and coagulation of vacant sites leading to the formation [illegible] cracks, macrodestruction). Bibliography: 12 references.

[illegible] IC, AS ENCL: 00

Card 3/3

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R000516320006-8"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R000516320006-8

NR: AT4046870

TITLE: Effect of different kinds of treatment on some properties of SN-2 and SN-3 steel

SOURCE: AN SSSR, Nauchny*y sovet po probleme zharoprochny*kh splavov. Issledovaniya staley i splavov (Studies on steels and alloys). Nauka

TAGS: steel structure, steel crystallization, [illegible] strength

ABSTRACT: High-strength stainless steels of the transient austenitic-martensitic class are widely used. Since they are between the austenitic [illegible]

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"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R000516320006-8

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ACCESSION NR: AT4046870

[illegible] strength on the MP-0.5 machine [illegible] and the [illegible] under an MIM [illegible]m [illegible]

[illegible] study of UN-2 steel shows that the [illegible] transformation begins near 450C and ends near 750C, causing a rise in internal friction. The occurrence of this increase is not [illegible] explained, however, since the [illegible]

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"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R000516320006-8

ACCESSION NR: AT4046876 ENCLOSURE: 02

[illegible] thermal fraction of 5N-2 steel on mechanical [illegible]

[illegible] normalized from 975C; 2-normalized from [illegible] + cold working in nitrogen; 3-normalized [illegible] + cold working at 700C; 4-normalized [illegible] 975C + compression of 41% 6-treatment [illegible]

[illegible] same as in curve 4 + aging; [illegible] treatment the same as curve 6 + aging.

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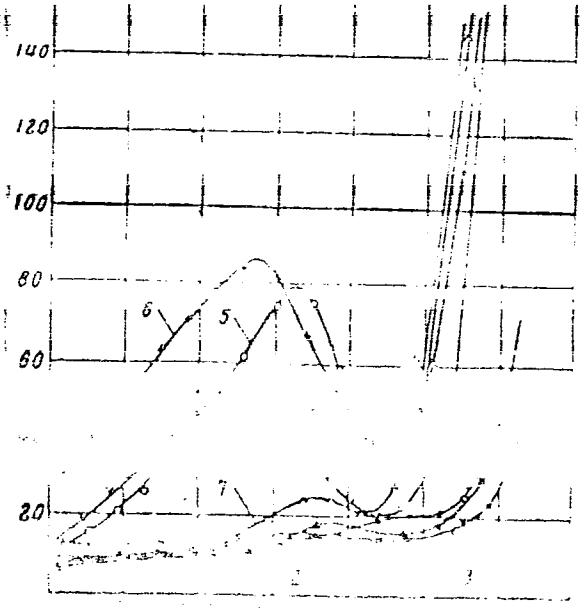
"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R000516320006-8

AT4046870

ENCLOSURE

pendence of temperature
of internal friction of SN-3 steel
hanical and thermal treatment:
normalized from 930C;
2-normalized from 1050C;
normalized from 1100C;
normalized + cold working in
normalized + compression of 30%;
6-normalized + cold working in nitrogen
compression of 30%;



APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R000516320006-8"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R000516320006-8

GORSHKOV, G.B.

Voluntary information bureau for welders. Mashinostroitel' no.2:35 F '62. (MIRA 15:2)
(Sverdlovsk--Electric welding)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R000516320006-8"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R000516320006-8

PREDVODITELEV, A.S., otv. red. ; BANKVITSER, A.L., red. izd-va; GORSHKOV, G.B., red.izd-va; VOLKOVA, V.G., tekhn. red.

[Physical gas dynamics, heat transfer, and the thermodynamics of gases at high temperatures]Fizicheskaia gazodinamika, teploobmen i termodinamika gazov vysokikh temperatur. Moskva, Izd-vo Akad. nauk SSSR, 1962. 311 p. (MIRA 15:12)

1. Moscow. Energeticheskiy institut. 2. Chlen-korrespondent Akademii nauk SSSR (for Predvoditelev).
(Gas dynamics) (Heat—Transmission)
(Gases at high temperatures)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R000516320006-8"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R000516320006-8

MIKHEYEV, M.A., akademik, otv. red.; GORSHKOV, G.B., red. izd-va; GOLUB', S.P., tekhn. red.; MAKOGONOVA, I.A., tekhn. red.

[Heat transmission]Teploperedacha. Moskva, Izd-vo Akad. nauk SSSR, 1962. 144 p. (MIRA 15:10)

1. Akademiya nauk SSSR. Energeticheskiy institut.
(Heat—Transmission)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R000516320006-8"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R000516320006-8

OSIN, I.A.; GORSHKOV, G.B.; BUROV, V.S., inzh., retsenzent; ZHESTKOVA, I.N., inzh., red.

[Technical achievements of the mold makers at the Ural Machinery Plant] Tekhnicheskie dostizheniia formovshchikov Uralmashzavoda. Moskva, Mashinostroenie, 1964. 62 p. (MIRA 17:10)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R000516320006-8"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R000516320006-8

VINOGRADOV, G.V., doktor khim. nauk, prof., otv. red.; DINTSES, A.I., doktor khim. nauk, otv. red.; GARKUNOV, D.N., doktor tekhn. nauk, otv. red.; GORSHKOV, G.B., red.

[Theory of lubricating action and new materials] Teoriia smazochnogo deistviia i novye materialy. Moskva, Nauka, 1965. 245 p. (MIRA 18:7)

1. Akademiya nauk SSSR. Nauchnyy sovet po treniyu i smazkam.

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R000516320006-8"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R000516320006-8

GORSHKOV, G.I.

COUNTRY : USSR V

CATEGORY : Pharmacology and Toxicology. Ganglionic Blocking Agents

ABS. JOUR. : RZhBiol., No. 5 1959, No. 23105

AUTHOR : Gorshkov, G. I.

INST. : -

TITLE : On the Ganglionic Blocking Influence of Pachycarpine

ORIG. PUB. : Farmakol. i toksikologiya, 1958, 21, No 2, 14-18

ABSTRACT : The character of the action of various concentrations of pachycarpine hydroiodide (P) on vegetative ganglia, as well as on post-ganglionic terminals in the frog's heart, was studied. 45 experiments were carried out. A lead-in cannula was inserted into the abdominal vein. Ringer's solution flowed out through the intersected abdominal aorta. One pair of electrodes was applied

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"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R000516320006-8

COUNTRY : V
CATEGORY :

ABS. JOUR. : RZhBiol., No. 5 1959, No. 23105

AUTHOR :
INST. :
TITLE :

ORIG. PUB. :

ABSTRACT : cardiac arrest; during stimulation, only the amplitude decreased and the rhythm slowed down. With an increase of the voltage, the heart stopped, but rapidly resumed its work. In experiments with higher concentrations (1:20,000 and 1:10,000), the stimulation of VSN did not produce cardiac arrest already after 5 min; the stimulation of the sinus caused its arrest. In all

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"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R000516320006-8

COUNTRY :
CATEGORY :

V

ABS. JOUR. : RZhBiol., No. 5 1959, No. 23105

AUTHOR :
INST. :
TITLE :

ORIG. PUB. :

ABSTRACT : cases, during the first 5-20 min, the amplitude
cont'd of contractions built up (up to 60%), then it slowly decreased, and by the end of the hour it dropped below the normal (15-5%). The rhythm always slowed down by 40-45%. The heart, not responding to the stimulation of the venous sinus, stopped upon application onto it of 2-3 drops of arecoline solution at 1:1,000. No increase of amplitude was observed on the atropinized preparation from P in a concentration of

Card: 4/5

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R000516320006-8"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R000516320006-8

GORSHKOV, G. I., Cand Vet Sci -- "Data for the study of the pharmacological properties of the medicinal sealwort." Omsk, 1961. (Min Agr RSFSR. Omsk Vet Inst) (KL, 8-61, 256)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R000516320006-8"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R000516320006-8

GORSHKOV, G.I.; KARAKOV, D.T.; KIRYUKHIN, R.A.

Effect of cobalt chloride on smooth musculature of the intestine. Farm. toks. 24 no.3:338-342 My-Je '61. (MIRA 15:1)

1. Kafedra farmakologii (zav. - dotsent M.I.Rabinovich) Troitskogo veterinarnogo instituta.
(INTESTINES) (COBALT CHLORIDES)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R000516320006-8"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R000516320006-8

L 27725-66 EWT(m)/EWA(h) JW

ACC NR: AP6013726 SOURCE CODE: UR/0089/66/020/004/0327/0330

AUTHOR: Gorshkov, G. K.; L'vov, L. N.

ORG: none

43
33
B

TITLE: Vaporization of thin nonmetallic specimens by fission fragments

19

SOURCE: Atomnaya energiya, v. 20, no. 4, 1966, 327-330

TOPIC TAGS: fission product, vaporization, curium, radioisotope

ABSTRACT: The authors study vaporization of salts by fission fragments using a mixture of curium salts and inactive metals. Measurements on an α-spectrometer showed that the curium had the following isotopic composition: 97.7 percent Cm^{244}, 1.9% Cm^{243} and 0.3 percent Cm^{242}. Spontaneous sources of fission fragments were made from solutions of these salts with a weight concentration of curium equal to 1/30 of the total quantity. The solution was applied to aluminum foil measuring 4-5 μ in thickness. Aluminum oxide films were used for collecting the atoms vaporized from the surface of the source. Fission fragments behind the collector were registered by a glass which was etched in hydrofluoric acid after exposure. The number of fragments was indicated by conical depressions on the glass surface which were clearly visible under a microscope. It was found that the salt films are vaporized by fission fragments formed in the curium. Fragments which pass along the surface of the source have the great-

2

UDC: 621.039:554

Card 1/2

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L 27725-66

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est effect. The number of atoms vaporized from the surface of the source by a single fragment varies with an increase in source thickness, reaching a maximum at a critical thickness of $1.5 \cdot 10^{-6}$ cm which corresponds to the effective radius of the thermal peak. Each fragment passing along the surface of a source of critical thickness or greater vaporizes approximately $5 \cdot 10^{7}$ atoms or molecules, while a fragment perpendicular to the surface vaporizes about 10^{3} atoms or molecules. It is shown that the curve for the number of atoms vaporized as a function of source thickness reaches saturation at a thickness of approximately $7 \cdot 10^{-6}$ cm. In conclusion the authors thank P. A. Petrov for formulating the problem and constant interest, G. N. Flerov and K. A. Gavrilov for assistance in solving the problem, D. V. Ershler for discussing the results and Ye. F. Tret'yakov and L. N. Kondrat'yev for isotopic analysis of the curium. Taking part in the work were A. A. Nechushkin, G. A. Khrudeva, Yu. P. Gavrilov, and M. N. Anikin. Orig. art. has: 2 figures, 3 tables. [14]

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PROCESSES AND PROPERTIES INDEX

3

CA

The efficiency of the counting of cosmic-ray particles with the Geiger-Müller counters at various pressures of the gas in the counters. V. Zhadin and G. Goyshkov. *Uchenye Zapiski Leningrad. Gosudarst. Univ., Ser. Fiz. Nauk* **1939**, No. 4, 63-6.—The efficiency was studied at 22, 35 and 75 mm. pressures. The no. of true coincidences decreased sharply with the increase of the distance, while the no. of coincidences caused by the showers did not change appreciably. With a pressure of 2-3 cm. Hg in the counters the efficiency differed noticeably from one. This fact cannot be neglected in accurate measurements of cosmic rays. Conclusion: The basic assumption of Danforth and Ramsey (*C. A.* **30**, 4753[9]) (that the counter registers every particle that produced at least 1 pair of ions in the inner gas space of the counter) is erroneous because the values obtained are too low and they contradict the ionizing ability of cosmic rays as detd. by other means. However, should this assumption be correct, then the detn. of the ionizing ability of cosmic rays by means of the counters must be regarded very critically. W. R. H.

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USSR/Geology Mar 1947
Seismology

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Gives data on location of epicenters, intensity, and isoseisms of Crimean earthquakes. Geologic and seismic data indicate importance of certain transverse tectonic directions, especially along the line from Alushta to Simpheropol. Explains lack of earthquake penetration in Kertch Peninsula. South shore of Crimean Peninsula is area where in-

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USSR/Geology (Contd) Mar 1947

tensity greatest (8 international units); the plain region experiences the least, with 5 units.

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USSR/Geology Nov 48
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"Earthquakes," G. P. Gorshkov, Dr Geol Mining Sci, 9 pp

"Nauka i Zhizn'" No 11

Describes some major earthquakes, classifies earthquake force (1 - 12), disisoseismals, epicenters, energy in the focus, deformation of the earth's core during earthquakes, reasons for earthquakes, geographical distribution of earthquakes in the USSR (with map), earthquake-

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proof construction, and forecasting of earthquakes. Gives photograph of a new seismograph, and locations of seismographic centers.

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NABOKO, Sof'ya Ivanovna, kandidat geologo-mineralogicheskikh nauk; GORSHKOV, G.P., doktor geologo-mineralogicheskikh nauk, nauchnyy redaktor; SKOMECHNAYA, A.D., redaktor; YUSFINA, N.L., tekhnicheskiy redaktor

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[How mountains are formed] Kak obrazuiutsia gory. [Moskva, Izd-vo "Sovetskaia Rossiia," 1957] 10 p. and 5 l. (in portfolio)
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GORSHKOV, G. P.

SVYATLOVSKIY, A.Ye.; [redacted]., Professor, otvetstvennyy redaktor; GUROV, K.P., redaktor izdatel'stva; GUSEVA, I.N., tekhnicheskiy redaktor

[Tsunami; destructive waves caused by seismic activity in seas and oceans] TSunami; razrushitel'nye volny, voznikaiushchie pri podvodnykh zemletriaseniiakh v moriakh i okeanakh. Moskva, Izd-vo Akad.nauk SSSR, 1957. 67 p. (MLRA 10:9)
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GORSHKOV, G.P.

BALAKINA, L.M.

3(10) PHASE I BOOK EXPLOITATION SOV/1663

Akademiya nauk SSSR, Komitet po geodezii i geofizike.

Tezisy dokladov na XI General'noy assamblyee Mezhdunarodnogo geodezicheskogo i geofizicheskogo soyuza. Mezhdunarodnaya associatsiya seysmologii i fiziki nedr zemli (Abstracts of Reports Submitted to the XI General Assembly of the International Union of Geodesy and Geophysics. The International Association of Seismology and Physics of the Earth's Interior) Moscow, 1957. 108 p. /Parallel texts in Russian and English/ 1,500 copies printed.

No additional contributors mentioned

PURPOSE: This booklet is intended for geophysicists, especially those specializing in seismology.

COVERAGE: This collection of articles deals with the structure and composition of the Earth and phenomena related thereto. The majority of the articles concern studies of earthquakes and seismic waves. Other articles cover the structure of the Earth's crust and mountain roots; the elastic properties of rocks at high pressures; the piezoelectric effect of rocks and the method of modelling in tectonophysics. The collection also contains articles on the Earth's thermal history, the microseismic method of tracing storms and others.

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[Earthquakes] [Zemletriaseniia. [Moskva , Izd-vo "Sovetskaia Rossiia," 1957] 7 p. and 4 fold. l. (in portfolio) (MIRA 11:5)
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Gorshkov, Georgiy Petrovich, and Aleksandra Fedorovna Yakusheva

Obshchaya geologiya (General Geology) Moscow, Izd-vo Mosk. univ., 1957. 465 p. 18,000 copies printed.

Ed. (Title page): M.M. Charygin; Ed. (Inside book); K.A. Shilova; Tech. Ed.: V.P. Gur'yanov

PURPOSE: This work is intended as a textbook for students at the university level.

COVERAGE: This book constitutes an introductory course in geology, and is based on a series of lectures given by the authors at the geographical and geological faculties of the University of Moscow. The book is published under the auspices of the Ministry of Higher Education of the USSR as a textbook for state universities. Part I contains basic information on the forms, composition, dimensions,

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